

Title (en)  
DISC CARTRIDGE

Publication  
**EP 0301811 A3 19890726 (EN)**

Application  
**EP 88306885 A 19880726**

Priority  
• JP 18781087 A 19870729  
• JP 22660987 A 19870911

Abstract (en)  
[origin: EP0301811A2] A disc cartridge comprising a cartridge case (1) having head insert openings and encasing a disc-type recording medium (2) rotatably therein and a shutter (3) for opening or closing the head insert openings (15) and being mounted on the cartridge case (1), the shutter (3) being molded from a synthetic resin material having a water absorbability of not more than 0.05% by weight and a maximum bending strength of not less than 500 kg/cm<sup>2</sup> has a good resistance to deformation by an external force during the working, handling or preservation.

IPC 1-7  
**G11B 23/033**

IPC 8 full level  
**G11B 23/03** (2006.01)

CPC (source: EP KR US)  
**G11B 23/03** (2013.01 - KR); **G11B 23/0308** (2013.01 - EP US)

Citation (search report)  
• [A] EP 0201870 A2 19861120 - HITACHI MAXELL [JP]  
• [A] EP 0160538 A2 19851106 - SONY CORP [JP]  
• [A] MODERN PLASTIC ENCYCLOPEDIA

Cited by  
EP0653755A3; EP0653756A3; EP0343844A3; EP0989560A3; WO9313527A1; US6307711B1; US6477137B1

Designated contracting state (EPC)  
DE GB

DOCDB simple family (publication)  
**EP 0301811 A2 19890201; EP 0301811 A3 19890726; EP 0301811 B1 19930317**; DE 3879311 D1 19930422; DE 3879311 T2 19930812; KR 0124147 B1 19971128; KR 890002874 A 19890411; US 5121380 A 19920609

DOCDB simple family (application)  
**EP 88306885 A 19880726**; DE 3879311 T 19880726; KR 880009137 A 19880721; US 22583188 A 19880729